

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application and annexed to the International Report on Patentability:

1. (currently amended) Device for temporal slaving in a packet data transmission network, each data packet comprising a time label, the said device comprising means of temporary storage ~~(6)~~, intended to receive the packets received from the said network and having a storage capacity able to record data received for a predetermined time ~~(IPDV)~~ dependent on the characteristics of the network ~~(5)~~,

- the said device furthermore comprising
- means ~~(7)~~ for regenerating a local reception clock as a function of the time label of the incoming packets,
- means for reading the data in the means of temporary storage at an instant dependent on the said predetermined time ~~(IPDV)~~ and on the regenerated local reception clock;

~~characterized in that~~ wherein the means for regenerating a local reception clock comprise sub-means for accumulating said difference between the time levels of the incoming packets and the local reception clock during a period of time ~~(Tupdate)~~ and a sub-means for modifying in a non-linear manner the local reception clock according to said difference.

2. (currently amended) Device according to Claim 1, ~~characterized in that~~ wherein the means of reading the data in the means of temporary storage ~~(6)~~ are adapted for reading the data in the means of temporary storage ~~(6)~~ when the difference between the said predetermined time ~~(IPDV)~~ and the regenerated local clock is greater than the value of the time label of the next packet to be output from the means of temporary storage ~~(6)~~.

Claim 3 is cancelled.

4. (currently amended) Device ~~according to one of the preceding claims, characterized in that~~ claim 1, wherein it comprises means of reducing the convergence time on start-up, said means comprising sub-means for accumulating the said differences for a predetermined number of received packets and calculate a mean of said differences over said predetermined number of packets, said mean of said differences being subtracted from said differences.

5. (currently amended) Device according to ~~one of the preceding claims, characterized in that~~ claim 1, wherein it comprises means ~~(31)~~ of reducing the phase noise.

6. (currently amended) Device according to Claim 4, ~~characterized in that~~ wherein the means ~~(31)~~ of reducing the phase noise comprise a digital low-pass filter.

7. (currently amended) Device according to ~~one of the preceding claims, characterized in that~~ claim 1, wherein it comprises means ~~(32)~~ of generating artificial noise.

8. (currently amended) Method of temporal slaving in a packet data transmission network, each data packet comprising a time label, the said method comprising a step of temporary storage ~~(6)~~ of the packets received from the said network and ~~being characterized in that~~ comprising:

- during the storage step, the data are stored for a predetermined time ~~(IPDV)~~ dependant on the characteristics of the network ~~(5)~~,
- the said method furthermore comprising
- a step of regenerating a local reception clock as a function of the time label of the incoming packets,
- a step of reading the data in the means of temporary storage at an instant dependent on the said predetermined time ~~(IPDV)~~ and on the regenerated local reception clock.